

MARINE CORPS WARFIGHTING LABORATORY

The High Speed Connector (HSC) is a transformational technology that fills a critical capability gap in the family of sea base connectors. Marine Corps experimentation with the High Speed Vessels (HSV's) is focused on evolving the concept of the HSC as a component of the networked sea base.

Background:

Since October 2001, the Marine Corps and Navy have been conducting concept based experiments with High Speed Vessels (HSV) in order to assess their capabilities and limitations within the context of Operational Maneuver from the Sea (OMFTS). Joint experiments are exploring commercially available high-speed, shallow draft vessels with advanced hull, propulsion, and communications technologies.

Concept of Experimentation:

Experimentation will explore the concepts, capabilities and military utility associated with high-speed, shallow-draft intra-theater vessels that are integrated with advanced hulls, propulsion technologies and innovative communications. As an intra-theater surface connector the HSC is a transformational technology that fills a critical capability gap in the family of sea base connectors by linking advanced bases, sea bases, and forces operating ashore. HSC's will play a crucial role in all phases of sea-based operations from deployment through rehabilitation and reconstitution. The evaluation of all data collected from previous and future experimentation will be used to support the Expeditionary Force Development process, and refine potential missions for future High Speed Connectors (HSC).

Deliverable Product:

A definitive USMC requirement and CONOPS in order to transition via Navy as a joint program with the Army TSV (Theater Support Vessel) program.

HIGH SPEED CONNECTOR

fact sheet



Capability:

Vessel Length:	98-meters (321 feet)
Vessel Beam:	27 meters (89 feet)
Maximum Sustained Speed:	38 knots (max payload) 45 knots with no payload
Draft (max payload):	11 feet 4 inches
Range (no payload):	4000 NM @ 20 knots 2400 NM @ 35 knots
Range (with max payload):	1100 NM @ 35 knots
Payload (embarked cargo):	630 Short Tons 23,000 Sqft
Seating (Embarked Force):	128 Airline seats
Berthing (Embarked Force):	87 Temporary berths 98 Permanent berths 185 Troop Berths
Crew:	40-45 crew (male/female)
Messing:	42 seat capacity
Flight Deck:	SH-60, MH-60, UH-60, CH46,AH1W, UH1N
(1 landing spot and 2 hanger spots)	

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